BRUHAT BANGALORE MAHANAGARA PALIKE

Detailed Estimate for Maintenance and repair to electrical installation in parks gardens playgrounds and burial grounds current works.

Budget Head .....

Division No..... Estimate No.20..... For Rs. 1625000.00

Sl. No.	SR Page & SL No	Description of Work	Qty.	Rate Rs	Unit	Amount
1	AR	Fabricating, supplying and erecting stepped / welded tubular pole of height 3.5 Mtr having three sections, and providing two coats of red oxide paint and finished with two coats of enameled paint of approved quality and colour. and M. S. Base plate of size 150 mm X 150 mmX 6mm thick welded at the bottom of the pole. 32mm dia GI/flexible PVC pipe of 1 mtr length fitted to the existing Polycarbonate box. control box 1 No. of 4 way connector in case of cable looping. The pole shall be erected in cement concrete of (1:3:6) including excavation and refilling and (1;2;4) coping. (Top 0.5 Mtr. X 2" dia, Middle 1 mtr., X 2.5" dia, Bottom 2 mtr., X 3" dia)	20	3200.00	Each	64000.00
2	26/4.35.1	LED Street light.Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminare > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenupply finish including wiring, ignitor, condenser. SS Toggles for opening front hingeable glass.ystem Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacture. Suitable for B1/B2 Roads as per IS 1944 Part I & Part II.LED Streetlight 65watts	80	6912.00	Each	552960.00
3	61/7.65	Supplying of 1.1KV grade Aerial Bunched Cable Stranded & Compacted Aluminum Phase Conductor, and Stranded Messenger Conductor with all aluminum Alloy, Phase Conductor is insulated with XLPE Compound, insulated Messenger with specified IS-14255:1995 & confirming to GTP of GROUP-A. 3 X 25 + 1 X 25 + 1 X 16 SQ.MM	200	177.00	Per Mtr	35400.00

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4	Bes SR	Stringing of 1.1kv LT Arial Bunched Cable, BESCOM SR	200	10.30		
5	55/7.4.5	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanished, steel wire/steel tap armoured cable with PVC outer sheating 1.1 KV class.I. Class 'A' PVC Cable. 4 core 16 sqmm	1000	140.40	Per Mtr	140400.00
6		3.5 core 25 sqmm	250	165.00	Per Mtr	41250.00
7	61/7.8.2	Labour charges for laying of 1.1 KV class UG cable when supplied agency in existing trench Gl pipe / stoneware pipe / on wall /on pole as required. I. In existing trench/duct. 6 sqmm to 16 sqmm	1000	10.80	Per Mtr	10800.00
8		b)25sqmm to 75 sqmm	250	16.00	Per Mtr	4000.00
9	62/7.9.1	Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete. (As perCivil SR KSRB l-2, P-7).a) In soil (ordinary)	700	78.00	Per Mtr	54600.00
10	22/4.16	Supplying High pressure Sodium Vapour street light luminaire 250Watts suitable for use with high pressure Sodium Vapour lamp with integrated control gear & grey color power coated. The fitting shall be non corrosive pressure die cast aluminum housing with high purity anodized aluminum reflector with EPDM Gaskets suitable for Outer Dia of pole 40mm - 60mm. Cable Entry through a cable gland with toggle clips. IP65 Protection for both optical & Electrical Compartment. Bottom cover may be with Poly carbonate/tempered/ toughened glass. Luminaire efficiency should be >60% & ambient temperature > 35 deg C. High Intensity Discharge Electro Magnetic Ballast with Copper winding of Orthocyclic winding coil. Class H insulated dual coated copper wire. Compliance to IEC 61347-2-9 Safety & IEC 60923 - Performance. Winding Temperature for HID Ballast Tw = 130 deg C & temperature rise ?T = 70 deg C. Luminaire shall be suitable to operate on 230/250 Volts finish including wiring, suitable to operate on 230/250 Volts 50 Hz AC supply finish including wiring, ignitor, condenser. SS Toggles for opening front hingeable glass.	30	6900.00	Each	207000.00
11	108 /17.1.2	Supplying & fixing of 32 mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 or rail or RCC pole/wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires complete. Using 32mm dia G.I pipe	110	893.00	Each	98230.00
12	2007-08 SR	Supplay and Fixing of Mechanical Timer Group A	10	4200	No	42000.00
13	6.12.4	Supply and fixing of 4-pole power contactor with NO/NC contacts on existing wood / panel board using necessary bolts, nuts, washers and wiring etc., complete. d) 100-125 Amps	10	9915.00	Each	99150.00
14	47/6.16.2	Supplying and fixing miniature circuit breakes on exisiting MCB distribution boards using necessary fixing materials and wiring complete as required. b) 40-63Amps SPN. Group 'A'	33	677.00	Each	22341.00

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		Per Mtr Per				
		140400.00				
15	2/1.1.3	Open Conduit Systeme: Supplying heavy gauge PVC conditpipe,,,,,,,,,, dia confirming to IS 2509 with suitable size bends,junction boxes, adhesibve paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or plug incase of brick walls and cement plastering damaged portionusing heavy gauge saddles at an interval of 700mm using NF screws.c)32mm dia 2.5mm thick	100	100.00	Per Mtr	10000.00
16	6/2.6.7	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multis and **Copper** conductor single core cable in open or consealed system of wiring.I Group A Materials.g)16 sqmm	100	132.00	Per Mtr	13200.00
17	45/6.7.4	Supplying and fixing of Procelain fuse channel with cut out on exisiting wooden/panel using necessary nuts, bolts and washers etc., complete.d) 100 Amps	30	360.00	Each	10800.00
18	62/7.12.3	Supplying and fixing of class A (medium duty) Gl pipe of wall thick ness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class. c) 65mm	30	585.00	Per Mtr	17550.00
19	49/6.40.2	Fabricating supplying and mounting MS box made out… SWG suitable lfor floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size cdlamps with mecessary cable entry pipe with gland and box should be finished with 2 cdoats of red oxide primer paint and finally finished with approved colour enameled metal pain etc., complete. b)16 swg	250000	0.33	Sqc m	82500.00
20	49/6.38.2	Supplying…… amps rated 3phase with neutral bus bar using requiemed capacity electrolytic aluminium strips covered with heat shrinkable couloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6mm M.S. flat frame work in existing panel board. The bus bar shall gave suitable holes for termination of incoming and outgoing cables as per IS specification with necessary botls, nuts and washers etc., complete.b)250Amps 4X30X10mm Alluminium Strips	10	2942.00	Per Mtr	29420.00
21	49/6.39.1	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. And M.S. flat… with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. a)40X40X6mm	50	263.00	Per Mtr	13150.00
22	46/6.13.B.6	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of overload and short circuit with thermal Magnetic/ Microprocessed release and earth fault as per IS-13947(Icu=Ics). Four Pole. 100Amps 25kA.	10	5809.00	Each	58090.00
23	55/7.3	Supplying and running of Gl/Copper strips for grounding connections, using necessary fixing materials as required. II Copper Strip. B)25X3mm	20	77.00	Per Mtr	1540.00

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24	49/6.391	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. And M.S. flat… with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. a)40X40X6mm	50	263.00	Per Mtr	13150.00
25		BESCOM DEPOSITE CHARGES				1409.00
		Total				1625000.00

CERTIFICATE

1. The Place was inspected and work is essential.
2. The Provision made in the estimate is adequate and are necessary.
3. The Work comes in the BBMP limit and is legitimate charges on the Corporation Funds.
4. The rates in the Estimate is based on PWD (Elec) SR of 2014-15 /lowest quotation rates/ approved rates.

T.N. Reddy
Asst. Engineer (Elec)

Asst. ~~Exe.~~Engineer (Elec)
Sub-Division No.
Bruhat Bangalore Mahanagara Palike

EXECUTIVE ENGINEER (ELEC)
DASARAHALLI DIVISION
BRUHAT BANGALORE MAHANAGARA PALIKE

ನಂ. 18 ಕಾ.ಅ.(ವಿ):ದಾ.ವ: 200 2016-17 200
ದಿನಾಂಕ 03/03/2017 ರೂ. 1625000/- ಅಕ್ಷರಗಳಲ್ಲಿ Sixteen lakh twenty five thousand ಗಳ
ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ
ಪಟ್ಟಿ ಸಂಖ್ಯೆ 23 ಕ್ರಮಸಂಖ್ಯೆ 18
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು (ವಿ)
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು

ಸಂಖ್ಯೆ. ಬೃ.ಬೆಂ.ಮ.ಪಾ : ದಾ.ವ : ತಾಂತ್ರಿಕ : 23/ 2016-17 200 - 200
ದಿನಾಂಕ: 3/3/2017 ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು ರೂ. 1625000/-
ಅಕ್ಷರಗಳಲ್ಲಿ Sixteen lakh twenty five thousand
ಗಳಿಗೆ ಮಾತ್ರ 200 - 200 2016-17 ನೇ ಸಾಲಿನ ವರ್ಗಗಳ ಪಟ್ಟಿಯಂತೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು-57.

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